A system for converting data in a first hierarchical data

Claims

What is claimed is:

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and

generation module, containing data in the first hierarchical data

scheme.

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The system of claim 1, wherein the template and the 2.

scheme into a second hierarchical data scheme, comprising:

template defining the second hierarchical data scheme;

a data source, in communication with the dynamic data

a dynamic data generation module contained in the template;

- dynamic data generation module are contained in a server.
- 3. The system of claim 2, further including a driver connected between the dynamic data generation module and the data source.
- The system of claim 3, further including a developer 4. module contained in the server for creating the dynamic data generation module.

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- 5. The system of claim 1, wherein the template is a static extensible markup language document.
- 6. The system of claim 1, wherein the template is an extensible markup language document type definition.
- 7. The system of claim 1, wherein the template is an extensible markup language schema.
- 8. The system of claim 1, wherein the first hierarchical data scheme is selected from the group of: extensible markup language schemes, relational databases, non-relational databases, extensible markup language databases and self describing databases.
- 9. The system of claim 1, wherein the second hierarchical data scheme is selected from the group of: extensible markup language schemes, relational databases, non-relational databases, extensible markup language databases and self describing databases.
- 10. The system of claim 1, wherein the dynamic data generation module includes a query directed to the data source.
 - 11. The system of claim 1, wherein the dynamic data generation module includes a data mapping between the first hierarchical data scheme and the second hierarchical data scheme.

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- 12. The system of claim 4, wherein the developer module contains a wizard that walks a user through a process of creating the dynamic data generation module.
- 13. A method of converting data in a first hierarchical data scheme into a second hierarchical data scheme, comprising the steps of:
 - a) publishing a dynamic template in a server;
- b) receiving an instruction from a client at the dynamic template;
 - c) executing the dynamic template; and
- d) when a dynamic data generation module is executed, performing a data transfer operation that converts data in the first hierarchical data scheme into the second hierarchical data scheme.
- 14. The method of claim 13, wherein step (a) further includes the steps of:
 - a1) receiving a template;
- a2) determining for each element of the template if a dynamically generated data is required;
- a3) when the dynamically generated data is required,
 receiving a data source for obtaining the dynamically generated data.

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15. The method of claim 14, further including the steps of:

a4) receiving a data mapping between the first
hierarchical data scheme and the second hierarchical data scheme.

16. The method of claim 15 wherein step (a4) further includes the steps of:

when the first hierarchical data scheme is a non-extensible markup language and the second hierarchical data scheme is a second non-extensible markup language, creating a first data mapping between the first hierarchical data scheme and an intermediate extensible markup scheme;

- ii) creating a second data mapping between the intermediate extensible markup scheme and the second hierarchical data scheme.
 - 17. The method of claim 15, further including the step of"
 - a5) receiving a key associated with the data mapping.

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- 18. A method of converting data in a hierarchical data scheme into an extensible markup language scheme, comprising the steps of:
 - a) receiving a static extensible markup language template;
- b) determining for each element of the static extensible markup language template if a datum needs to be dynamically generated;
- c) when the datum needs to be dynamically generated, receiving a data source having data in the hierarchical data scheme for acquiring the datum;
- d) receiving a data map between a data element in the data source and a metatag in the static extensible markup language template; and
- e) repeating steps (b) through (d) for every element of the static extensible markup language template to form a dynamic data conversion program.
- 19. The method of claim 18, wherein step (a) further includes the step of receiving a template selected from the group including: an extensible markup language document type definition and an extensible markup language schema.

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- 20. The method of claim 18, wherein step (a) further includes the step of:

 a1) defining an input parameter.

 21. The method of claim 18, wherein step (c) further includes the step of:

 c1) receiving a driver.

 22. The method of claim 18, wherein step (c) further includes the step of:

 c1) generating a query to the data source.
- 23. The method of claim 18, wherein step (d) further includes the step of:
- d1) receiving a screen having a list of elements from the
 data source and a list of metatags from the static extensible markup
 language template.

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- 24. The method of claim 18, wherein step (c) further includes the step of:
- c1) displaying an incomplete version of a dynamic extensible markup language template wherein a static element is shown in a first color and a dynamic element is shown in a second color.
 - 25. The method of claim 18, further including the steps of:
 - e) publishing the dynamic data conversion program to a server;
- f) when a query is received at the server for the dynamic data conversion program executing the dynamic data conversion program to form an extensible markup language document.

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- 26. A method of converting data in an extensible markup language scheme into a hierarchical data scheme, comprising the steps of:
 - a) receiving a sample extensible markup language file;
- b) determining for each element of the sample extensible markup language file if a datum needs to be dynamically processed;
- c) when the datum needs to be dynamically processed, receiving an extensible markup language element location for acquiring the datum;
- d) receiving a data map between a metatag in the sample extensible markup language file and an element of the hierarchical data scheme; and
- e) repeating steps (b) through (d) for every element of the sample extensible markup file to form a dynamic data conversion program.
- 27. The method of claim 26, wherein step (a) further includes the step of:

a1) defining a key.

28. The method of claim 26, wherein step (d) further includes the steps of:

d1) receiving a query type;

d) generating a query.

29. The method of claim 28, wherein step (d1) further includes receiving an insert query type.

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